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[ABSTRACT]

A positive working printing plate precursor is disclosed which comprises a hydrophilic support and a coating provided thereon which
5 comprises in the order given a first layer containing an oleophilic resin soluble in an aqueous alkaline developer and a second layer comprising a water repellent-compound. Furthermore, the coating comprises an infrared absorbing dye containing a perfluoroalkyl group providing a printing plate precursor with high sensitivity.